ANNUAL REPORT

of the

DAIRY DIVISION

and

ALBERTA DAIRY CONTROL BOARD

for the Year

1985 – 1986

Alberta
AGRICULTURE

86-06125/

ANNUAL REPORT

OF THE

DAIRY DIVISION

AND

ALBERTA DAIRY CONTROL BOARD

FOR THE FISCAL YEAR

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ANNUAL REPORT

DAIRY DIVISION STAFF

HEADQUARTERS - WETASKIWIN

DIRECTOR C. H. McNaughton, Cert. Pub. Admin., B.Sc., M.Sc., P.Ag.

ADMINISTRATIVE ASSISTANT B. M. MacIntyre, B.Ed. (resigned August 1985)
D. M. Herman, B.Sc.
E. D. Foran, B.A. (resigned March 1986)

SPECIAL PROJECTS A. A. Hughes, B.Sc., P.Ag.

HEAD, DAIRY PRODUCTION BRANCH E. S. Bristow, B.Sc., P.Ag.

HEAD, DAIRY PROCESSING BRANCH K. J. Waldon, B.S.A.

Specialists

J. S. Adams, B.Sc.	Dairy Equipment Specialist
D. J. Domes, B.S.A., B.Ed.	Provincial Milk Quality Specialist
R. C. Grapentine, B.Sc.	Dairy Equipment Specialist
R. J. Lowrie, B.Sc., M.Sc., Ph.D.	Provincial Cheese Specialist (resigned July 1985)
R. J. Pulyk, B.Sc.	Provincial Dairy Processing Specialist
B. J. Rhiness, B.Sc.(Agr.), P.Ag.	Provincial Production Specialist
T. S. Sohal, B.S.A.	Provincial Cheese & Cultured Products Specialist

Clerical Staff

G. E. Austin	Coordinator, Data Processing Unit
D. D. Danbrook	Secretary, Administration
L. J. Drennan	On Line Data Processing Operator
R. East	Edit Clerk, Production Branch
B. M. Fercho	Secretary, Processing Branch
S. B. Hackman	Secretary, Production Branch
G. L. Hammer	On Line Data Processing Operator
V. E. Hirsekorn	Supervisor, Data Control
T. R. Llorente-Kopp	On Line Data Processing Operator
B. M. Lucas	Secretary, Administration
M. J. Lucht	Edit Clerk, Production Branch
I. A. Munro	Edit Clerk, Production Branch
I. J. Sjogren	Secretary, Production Branch

Regional Staff

LETHBRIDGE	
W. D. Collis, B.S.A.	Dairy Processing Specialist
D. S. Croy, B.Sc.	Dairy Production Specialist
T. J. Dow, B.Sc.	Dairy Farm Specialist (transferred to Field Services, July 1985)
*T. J. Dow, B.Sc.	Regional Dairy Production Specialist
AIRDRIE	
*D. G. Lowry, B.Sc., M.A.	Regional Dairy Specialist
E. Skovmose, B.Sc.	Dairy Processing Specialist
A. W. Visscher, B.Sc.	Dairy Production Specialist
RED DEER	
B. J. Cameron, B.Sc.	Dairy Farm Specialist (transferred to Field Services, October 1985)
R. L. Hunter, B.S.A.	Dairy Processing Specialist
*D. M. Gibson, B.Sc., P.Ag.	Regional Dairy Specialist
D. R. Nairn	Dairy Farm Technologist
J. VanderLeest, B.A., B.Sc.	Dairy Production Specialist
VERMILION	
*R. M. Becker, B.Sc.	Regional Dairy Specialist (resigned May 1985)
*R. B. Douglas, B.Sc., P.Ag.	Regional Dairy Specialist
W. R. Smith	Dairy Production Technologist
BARRHEAD	
P. H. Schmiemann	Dairy Production Technologist
*W. L. Slack, B.Sc., M.Sc.	Regional Dairy Specialist
EDMONTON	
J. M. Beilman	Secretary
C. G. Knuetter, B.Sc.	Dairy Production Technologist
R. C. Pilling, B.Sc.	Dairy Production Specialist
H. G. Pohl	Dairy Production Technologist
L. A. Smith	Secretary (resigned July 1985)
T. S. Sohal, B.S.A.	Dairy Processing Specialist (transferred to Wetaskiwin as Provincial Cheese and Cultured Products Specialist, November 1985)
FAIRVIEW	
*R. J. Pulyk, B.Sc.	Dairy Processing Specialist (transferred to Wetaskiwin as Provincial Dairy Processing Specialist, January 1986)

* denote staff that report to Field Services sector.

DAIRY DIVISION

The Dairy Division assisted dairy producers and processors through inspection, consultation and demonstration to ensure the economic production and processing of legal, safe and wholesome dairy products. The Division supported and encouraged industry to manufacture new dairy products and to expand the processing of value-added products.

In support of the Department's regionalization in delivery of extension programs the Division provided coordination, training, resource information and services to regional staff.

A comprehensive analysis and update of regulations pursuant to the Dairy Industry Act was completed. Included are those matters of public health concern previously enforced by the Division under regulations of the Public Health Act and an adjustment to the Milk Grade and Price Program. The latter includes somatic cell numbers as an additional factor in the program and alters enforcement procedures to meet producer requests for a more practical application of the requirements.

The Division continues to support Alberta Dairy Herd Improvement Services and provides data control and computer analyses of production records.

A major new initiative began in 1986. The Division has placed a high priority on developing more effective pasteurization controls in Alberta milk processing plants. All dairy processing specialists and supervisory staff in the Dairy Division have completed special training in the use of pasteurization control procedures. This training was provided by the United States Food and Drug Administration. Additionally, a comprehensive review of all pasteurization facilities in the province has begun. This includes the timing and sealing of units, verification of pressure differentials and analyses and sealing of thermal controls. Staff have received excellent cooperation from industry in the introduction of this program.

DAIRY PRODUCTION BRANCH

The Dairy Production Branch responsibilities included dairy farm inspection; milk quality assurance; development and coordination of dairy extension programs, services and materials; and data processing of cow production records for producers enrolled on the Alberta Dairy Herd Improvement Program.

Support was provided to the regions in establishing objectives, developing position descriptions, recruiting and training regional dairy specialists. These extension specialists are responsible for leadership and coordination of dairy farm related advisory and service initiatives in the regions. Three Dairy Division positions were transferred to the regions for this purpose.

Dairy Farm Inspection

Inspection and advisory services were provided to dairymen in the areas of milk quality, milk production, equipment standards and construction and upgrading of dairy facilities.

Dairy Farm Inspection staff performed 3,680 farm inspections in 1985-86 and an additional 896 farm consultations. A total of 40,406 milk samples were analyzed for compliance with current milk quality standards. The Milk Grade and Price Program and the advisory service provided to producers continued to contribute to the excellent quality of milk produced in the province in 1985. The milk processors, through farm service programs, supported milk quality improvement on dairy farms.

The Milk Grade and Price Program, during the twelve month period ending March 31, 1986 recorded 156 Standard Plate Count violations, 16 Freezing Point violations and 101 Inhibitor violations - totalling 273 violations, a decrease of 45 violations from the year previous. Thirty nine loads of milk were destroyed due to inhibitor contamination. Funds collected from producers resulting from milk grade deductions were allocated to pay innocent producers for lost milk, and to compensate milk transport operators when confirmation was required for suspicious positive loads and for disposal of loads deemed positive. The remainder of the funds were redistributed to all milk producers on a monthly basis by the Alberta Dairy Control Board.

A non-compliance rate of 4.8% was achieved in the fluid milk sector and 5.3% for the industrial sector. The rates were basically unchanged from 1984. 94.7% of the industrial producer samples met fluid standards compared to 84.7 in 1984.

At March 31, 1986 there were 1,567 milk producers in Alberta, a decline of 67 from the previous year. Of that total, 1,458 were certified and 109 were classified as industrial. Industrial producer numbers declined by 26 from the previous year as producers continued to upgrade their facilities to meet certification requirements.

Bulk milk somatic cell counts continued to be monitored and advisory assistance was provided, as required, in an attempt to reduce the incidence of mastitis in dairy herds. Bulk milk tank somatic cell counts averaged 402,791 cells/mL for fluid producers and 596,352 cells/mL for industrial producers. These averages are slightly higher than in 1984, indicating that continued effort is required in the area of mastitis prevention control.

Inspection staff calibrated 119 bulk milk tanks during 1985. The majority of installations were larger replacement tanks required as a result of increased herd size.

Resource Services

The Dairy Production Branch provided resource materials, coordination and training to staff and agribusiness personnel. Regional

staff conducted workshops and seminars on a wide range of dairy production issues.

The Alberta Dairy Production Course continued as the basic information package on dairy production in Alberta. In excess of 800 copies have been distributed at a cost of $30.00 per course. Supplementary materials in the form of fact sheets, slide-tape presentations and newsletter articles were prepared.

A case study was developed to assist course subscribers to utilize the information in a dairy farm management environment.

A film on condition scoring was prepared in cooperation with the Broadcast Media Branch. The film titled "What's the Score?" was used in workshops and has been purchased for use in other provinces.

Several fact sheets were prepared by or in cooperation with branch staff. Topics included milking management, somatic cell counts, mastitis prevention and control as well as one which covers proper whey disposal on land.

Approximately 60 producers in 10 production plus clubs met in several areas of the province throughout the year. Each club identified topics for discussion which were specific to their needs.

The milking management specialists completed 212 milking equipment analyses on dairy farms. There were 52 new installations checked. Several of the analyses related to milking equipment cleaning and quality problems. The specialists worked with Farm Implement Act Administration staff concerning contractual or installation disputes between producers and milking equipment dealers.

A comprehensive publication on stray voltage was developed using the 1984 survey of Alberta dairy farms as a source of information.

The fourth annual Alberta Dairy Seminar was held in Banff. The seminar was jointly sponsored by the University of Alberta, Alberta Milk Producers' Association and Alberta Agriculture. Internationally recognized experts in mastitis control, milking machine function, forage production and dairy nutrition provided participants with the most up to date research and technical information available. The popularity of this annual seminar has continued to grow with both producers and agribusiness being well represented.

Branch staff assisted in organizing meetings and workshops at which timely dairy production topics were discussed. Seminars for lenders were held in several regions as bankers were determined to better understand the production and financial matters of importance to their dairy clients. A producer tour of British Columbia dairy farms was conducted to identify new technology which may be used on Alberta dairy enterprises.

The newsletter "Alberta Dairy Producer" was published monthly. It has been very widely read as a source of marketing and production information.

Training of staff and agribusiness personnel was emphasized because of several changes in personnel, programs and services during the year.

Milk Recording

The branch cooperated with Alberta Dairy Herd Improvement Services (previously Alberta Milk Recording Board) in providing the Dairy Herd Improvement Program to 826 producers. There were 68,186 cows tested during the year, which is an increase of more than 3,000 cows over 1984. Production per cow increased also to 6,803 kg (14,997 lbs) of milk and 238 kg (525 lbs) of milk fat.

Participation in the owner-sampler option increased only marginally to 714 herds, however, cow numbers increased by nearly 3,000 over 1984.

The supervised option continued to be popular. Herd numbers increased from 81 to 113 at year end.

Fees for both options, as determined and administered by Alberta Dairy Herd Improvement Services, remained unchanged at $5.00 per cow for owner-sampler and $18.00 per cow for supervised services.

Individual cow somatic cell counting continued to be offered in cooperation with the Food Laboratory and Dairy Herd Improvement Services. This option was subscribed to by over 600 producers who were already enrolled on a milk recording program. At $2.00 per cow per year, somatic cell counting has proven to be very popular among producers in the province.

Staff training in both field services and data processing was initiated in preparation for conversion to the new national milk recording program in 1986. Systems analysts from Alberta Public Works and Price-Waterhouse, Toronto were engaged to provide technical expertise during conversion to the new program.

TABLE I

The following table summarizes the activities of Dairy Farm Inspection. Comparisons are based upon April 1 to March 31 year basis.

	1984/85	1985/86
Number of Certified Milk Producers	1,499	1,458
Number of Industrial Milk Producers	135	109
TOTAL PRODUCERS	1,634	1,567
Inspections of Dairy Farm Premises	4,883	3,680
Non-Inspection Dairy Farm Calls	1,616	896
TOTAL FARM CALLS	6,499	4,576
TOTAL RAW MILK SAMPLES ANALYZED	40,852	40,406
Quality of Milk Samples Analyzed		
Fluid Milk Samples Non-Compliance (75,000/mL S.P.C.)	4.5	4.8%
Industrial Milk Samples Non-Compliance (200,000/mL S.P.C.)	5.1%	5.3%
Industrial Milk Samples which met Fluid Milk Standards	84.7%	94.7%
Average Somatic Cell Counts (Leucocytes) - Fluid	360,716	402,791
Average Somatic Cell Counts (Leucocytes) - Industrial	538,499	596,352
Number of Violations - S.P.C.	149	156
Number of Violations - Inhibitors	118	101
Number of Violations - Cryoscopic analysis	51	16*
TOTAL VIOLATIONS	318	273

Number of Violations	1982/83	1983/84	1984/85	1985/86
1 Violation	291	212	199	179
2 Violations	111	87	73	64
3 Violations	57	27	33	19
4 Violations	28	7	7	10
More than 4 Violations	20	9	4	2

* Changed actionable level on cryoscope analysis from -.530H to -.525H.

TABLE II

ALBERTA D.H.I. SUPERVISED HERDS ONLY

AVERAGE HERD SIZE, BCA'S AND YIELD IN SUPERVISED HERDS: BY BREED

Breed	No. of Herds	Average # Cows Tested	Milk BCA	Fat BCA	Milk Yield	Fat Yield
Holstein	100	90	159	150	7,591 (16,735 lbs.)	267 kg (589 lbs.)
Jersey	6	59	167	142	5,149 kg (11,351 lbs.)	235 kg (518 lbs.)
Brown Swiss	1	68	169	175	6,517 kg (14,367 lbs.)	278 kg (613 lbs.)
Guernsey	2	36	159	149	5,338 kg (11,768 lbs.)	248 kg (547 lbs.)
Ayrshire	4	30	163	150	5,912 kg (13,033 lbs.)	223 kg (492 lbs.)
Average of All Breeds	113	85	159	150	7,456 kg (16,437 lbs.)	265 kg (584 lbs.)

Total Cows Tested - 9,631

Date of Source: December 31, 1985

TABLE III

1985 ALBERTA D.H.I. OWNER-SAMPLER HERDS

AVERAGE HERD SIZE, BCA'S AND YIELDS BY BREED

Breed	Total No. of Herds	Total # Cows Tested	-Average of Herds with Established BCA's - Milk BCA	Fat BCA	Milk Yield	Fat Yield
Holstein	676	57,392	137	130	6,563 kg (14,469 lbs.)	233 kg (514 lbs.)
Jersey	22	825	135	119	4,982 kg (10,983 lbs.)	204 kg (450 lbs.)
Brown Swiss	4	353	143	133	5,757 kg (12,692 lbs.)	211 kg (465 lbs.)
Ayrshire	7	614	141	132	4,927 kg (10,862 lbs.)	191 kg (421 lbs.)
Guernsey	1	76	---	---	5,555 kg (12,246 lbs)	217 kg (478 lbs)
Other	4	334	129	117	5,598 kg (12,341 lbs.)	211 kg (465 lbs.)
TOTAL:	714	59,599				
Average of All Breeds:		84	138	131	6,481 kg (14,288 lbs.)	231 kg (509 lbs.)

Date of Source: December 31, 1985

TABLE IV

HERDS ON COMPUTERIZED D.H.I. SERVICE BY REGION - 1985

Region	Total Herds	Cows Tested	Herds with Established BCA's* # of Herds	Cows Tested	# Cows With BCA	BCA Milk	BCA Fat	Average Production kg Milk	Average Production kg Fat
1-Lethbridge	117	13,474	95	11,424	8,195	148	139	7,002 kg (15,437 lbs.)	247 kg (545 lbs.)
2-Calgary	92	7,714	83	7,215	4,845	144	137	6,861 kg (15,126 lbs.)	247 kg (545 lbs.)
3-Red Deer	279	20,831	243	18,408	13,108	140	133	6,696 kg (14,762 lbs.)	238 kg (525 lbs.)
4-Vermilion	76	5,631	64	5,066	3,518	135	127	6,334 kg (13,964 lbs.)	224 kg (494 lbs.)
5-Edmonton	242	19,250	224	17,888	12,947	136	129	6,482 kg (14,290 lbs.)	231 kg (509 lbs.)
6-Peace River	21	2,330	19	2,184	1,604	149	141	6,840 kg (15,079 lbs.)	247 kg (545 lbs.)
	827	69,230	728	62,185	44,217	140	133	6,685 kg (14,738 lbs.)	238 kg (525 lbs.)

*Breed Class Averages and statistics are based only on herds on test over one year where 60% of the cows have completed a lactation.

TABLE V

MILK RECORDING - 3 YEAR SUMMARY **

	1983	1984	1985
Number of herds under test	781	789	826
Number of cows under test	64,168	64,827	68,189
Average number of cows tested per herd	82.1	82.2	82.6
Number of cow-years	48,646.6	48,990.5	45,872.0
Average number of cow-years per herd	62.3	62.1	55.5
Average BCA milk all breeds	131	135	140
Average production milk - kg - (lbs.)	6,148 (13,554)	6,452 (14,224)	6,685 kg (14,738 lb)
Average BCA fat all breeds	123	127	133
Average production butterfat - kg - (lbs.)	217 (478.4)	228 (502.7)	238 kg (524.7 lb)
Average test (%)	3.52	3.53	3.56

** Herd averages on the basis of cow years. The total number of cows on test during the year was used in determining the herd average. Where a new cow was placed on test or a cow was sold or died, only that part of the year in which she produced was used.

DAIRY PROCESSING BRANCH

Overview

Total milk supply was similar to previous years. Decreasing fluid milk sales in the first part of the year necessitated greater processing into manufactured dairy products. Fluid milk sales improved toward the end of the year but were still below previous levels. Better quota management by producers resulted in considerably less milk being shipped out of the province during the "flush" period. During this time the milk drying plants and some cheese manufacturing plants were operating at maximum capacity.

Dairy Manufacturing Plants

Two new fluid milk processing plants commenced operation during the year at Tofield and Medicine Hat. A branch plant of a national company expanded their activities to include the manufacture of cheddar cheese. A major Alberta dairy company completed the installation of highly specialized, state of the art equipment for the manufacture of selected varieties of cheese and started initial operation. One small cheese manufacturing plant was closed during the year after a period of diminishing production. The renovation and modernization of most plants continued in varying degrees of complexity. Several license applications were made during the year, mostly for smaller "cottage industry" type plants.

Plant inspection programs were continued to ensure compliance of all Alberta dairy manufacturing facilities and their products with existing regulations.

The Provincial Dairy Division continued to participate in the federal In-Depth Plant Inspection Program. Most of the fluid milk processing plants are newly built or recently renovated and continue to receive high scores upon inspection. Current positions and comparative data for last year is as follows:

	1984/85	1985/86
Alberta Average Plant Score	87.5	88.1
National Average Plant Score	82.3	82.7
Lowest Scoring Plant In Alberta	76.7	77.4
Highest Scoring Plant in Alberta	98.9	99.6

Dairy Products

Bacteriological and compositional standards of fluid and manufactured dairy products remained very high and substantially higher than the regulatory minimum. The branch continued to concentrate on milk product keeping quality as reflected by a stressed product test as the yardstick by which quality

was measured. This more stringent test is necessary since products must remain fully acceptable to consumers after sometimes lengthy periods in the distribution system not always under ideal storage conditions. Dairy Processing Specialists investigated isolated lapses in quality rather than chronic difficulties in producing satisfactory products.

Virtually all freshly processed milk met Health Standards. After subjection to severe conditions (7 days at 7°C), 80.5% were still within requirements of Board of Health regulations. The branch continues to work towards 100% compliance at both levels.

A chocolate flavoured 2% partially skimmed milk sweetened with a non-nutritive sweetener was introduced during the year.

The new cheese manufacturing plant has introduced varieties of cheese not previously made in the province. They include Swiss, Havarti, Edam, Muenster, Feta and German Butter cheeses. The plant is also equipped to make Gouda, Mozzarella and Brick.

Licensing

Licenses Issued	1984/85	1985/86
Milk & Cream Graders & Testers	92	95
Cream Graders	65	66
Plant Milk Graders	73	81
Bulk Tank Milk Graders	305	285
Dairy Manufacturing Plant	36	40

Regulatory

Dairy Processing Specialist activities in regulatory functions were:

	1984/85	1985/86
Dairy Plant Inspections	478	427
Cream Grades Checked	2,785	1,343
Cream Grades Adjusted	13	4
Cream Tests Checked	1,096	590
Cream Tests Adjusted	3	4
Bulk Tank Trucks & Drivers Inspected	302	117
Bulk Tanks Levelled	9	1

Margarine

The Branch's responsibilities under the Margarine Act were carried out at a similar level of activity as in previous years. Margarine produced and/or sold in the province was sampled and analyzed throughout the year and found to comply fully with compositional requirements. There were continued attempts to market imitation dairy products in contravention of the Dairy Industry Act. As well as infringing on the Dairy Industry Act, methods used by promoters frequently contravened other regulations, e.g. those of the Health Protection Branch and Consumer and Corporate Affairs. This branch will continue to collaborate with other agencies to regulate the activities of promoters of imitation dairy products.

Extension

Dairy Processing Specialists worked closely with dairy processors in the implementation of technological changes and in broadening the range of dairy processing in the province. A major extension activity in recent years has been a voluntary Certification Program for dairy plant employees to assist in attaining improved quality through increased education and awareness. Lower turnover of staff in most dairy plants accounts for the reduction in issue of Dairy Plant Worker certificates. The awarding of certificates in specialist categories such as Cheesemaker, Plant Sanitarian, and Pasteurizer Operator, has increased.

The licensing of Milk and Cream Graders and Testers and Bulk Milk Graders is a legislative responsibility of this branch. In view of the important role of the Bulk Milk Grader in the collection of samples by which the producer is paid, especially since the introduction of the Milk Grade and Price Program, the branch has increased emphasis on testing, retesting and inspection of Bulk Milk Graders.

Together with Agriculture Canada and the Alberta Dairymen's Association, the Processing Branch continues to be active in sponsoring and judging dairy product quality competitions. Most competitions are based on monthly samples. Winners are recognized annually at the Dairymen's Convention.

Branch staff have worked closely with some Health Units in the development and implementation of an inspection program for soft serve ice cream retail outlets.

Increasing emphasis was placed on improving the quality of cultured dairy products. A project was developed to use the facilities at the Food Processing Development Centre to investigate the use of new technology in the manufacture of yogurt.

SPECIAL PROJECTS

The principle activity of Special Projects to March 31, 1986 was the preparation of a new Dairy Industry Regulation under the Dairy Industry Act.

The proposed Dairy Industry Regulation includes the responsibilities transferred to the Dairy Division from Public Health for the production and inspection of milk on the farm, as well as for the standards for milk and milk products in Alberta.

Other activities related to the monitoring of developments with respect to imitation dairy products; to provisions in the proposed Dairy Industry Regulation to permit the development, production and marketing of new and innovative dairy products; to security requirements for dairy manufacturing plants under the Dairy Industry Act; and to the potential impact of bovine growth hormone on milk production and the dairy industry in Alberta.

TABLE I Estimated Farm Value of Alberta Milk Production April 1985 - March 1986

The quantity, price, value and utilization of milk production during April 1985 to March 1986 is reported in the following table. To indicate changes from the previous year, 1984/85 figures have been included.

	Year	Butterfat Production ' 000 kg	Milk Equivalent '000	% of Total	Prices $	Value $'000
Butterfat for Creamery Butter	1985/86	870	24,160 L	4.30	4.427/kg	3,852
	1984/85	1,060	29,433 L	5.04	4.150/kg	4,399
Milk Purchased for the Manufacture of Powder and Butter (1)	1985/86	3,696	102,556 L	18.24	38.49/hL	39,474
	1984/85	5,068	140,617 L	24.07	37.57/hL	52,830
Milk for Cheesemaking	1985/86		107,469 L	19.11	38.49/hL	41,365
	1984/85		83,029 L	14.21	37.57/hL	31,194
Milk for Concentrating and Milk & Butterfat for Ice Cream & Misc. Products (2)	1985/86		49,731 L	8.84	40.29/hL	20,037
	1984/85		51,889 L	8.88	39.37/hL	20,429
Milk Purchased for Fluid Purposes	1985/86		256,588 L	45.64	50.62/hL	129,885
	1984/85		252,708 L	43.26	48.94/hL	123,675
Kept on Farms, Skimmilk for Creamery Butter	1985/86	783	21,744 L	3.87	17.56/hL	3,818
	1984/85	955	26,490 L	4.54	17.13/hL	4,538
Estimated Federal Subsidy	1985/86					18,784
	1984/85					20,426 R
TOTAL	1985/86		562,248			257,215
	1984/85		584,166			257,491

(1) Includes milk used for the making of cottage cheese.

(2) Does not include butterfat from creamery butter used in the manufacture of ice cream

R Revised Figures

TABLE II Estimated Production and Value of Factory Dairy Products April 1985 - March 1986

The following table shows the quantity, price and value of dairy products manufactured or processed in Alberta dairy manufacturing plants during April 1985 to March 1986, with corresponding figures for 1984/85 added to provide a means for comparison.

	Year	Quantity ' 000	Price $	Value $ '000
Creamery Butter (kgs)	1985/86	6,372 kg	5.320/kg	33,899
	1984/85	8,161 kg	5,225/kg	42,641
Cheddar Cheese (kgs)	1985/86	6,315 kg	6.639/kg	41,925
	1984/85	5,768 kg	6.630/kg	38,242
Variety Cheese (kgs)	1985/86	5,220 kg	5.554/kg	28,992
	1984/85	3,787 kg	5.540/kg	20,980
Ice Cream (litres) (1)	1985/86	31,287 L	1.730/L	54,127
	1984/85	31,457 L	1.700/L	53,477
Fluid Milk Sales (litres)	1985/86	217,841 L	.851/L	185,383
	1984/85	221,247 L	.840/L	185,847
Fluid Cream Sales (litres)	1985/86	9,323 L	1.680/L	15,663
	1984/85	8,963 L	1.670/L	14,968
Fluid Skimmilk, Buttermilk and Chocolate Sales (litres)	1985/86	28,868 L	.923/L	26,645
	1984/85	26,588 L	.910/L	24,195
Miscellaneous Manufactured Products (2)	1985/86			108,697
	1984/85			112,770 R
TOTAL	1985/86			495,331
	1984/85			493,120 R

(1) Includes hard and soft ice cream.

(2) Includes concentrated milk products, cottage cheese, whey cheese and yoghurt.

R Revised Figures

TABLE III — Milk Production and Utilization

Year	Total Milk Production in Millions of Units	Creamery Butter	Dairy Butter	Cheese	Miscellaneous Factory Products	Milk and Cream Consumed	Farm Fed Animals
		Percentage of Total Milk					
1940	1,468 lb.	47.6	20.0	2.1	1.7	21.6	7.0
1945	1,461 lb.	55.6	7.0	3.1	3.1	24.5	6.7
1950	1,375 lb.	53.2	8.1	2.4	4.6	25.6	6.1
1955	1,438 lb.	51.0	4.6	1.7	5.5	32.3	4.9
1960	1,650 lb.	52.9	3.5	1.3	7.2	30.0	5.1
1965	1,641 lb.	52.1	1.6	1.7	8.1	30.7	5.8
1970	1,529 lb.	44.9	1.3	2.8	11.2	33.6	6.2
1973	1,396 lb.	39.0	0.8	5.4	12.8	35.4	6.6
1974	1,284 lb.	34.1	----	6.5	13.5	38.9	7.0
1975	1,276 lb.	37.7	----	7.5	12.0	35.7	7.1
1976 fiscal	1,273 lb.	31.6	----	8.3	12.5	38.4	9.2
1977 fiscal	1,251 lb.	30.7	----	10.3	10.4	41.8	6.8
1978 fiscal	426 hL	27.6	----	11.2	10.6	44.1	6.5
1979 fiscal	450 hL	33.1	----	12.3	11.4	43.2(1)	----
1980 fiscal	480 hL	37.9	----	11.2	10.6	40.3(1)	----
1981 fiscal	528 hL	29.4	----	5.6	9.2	52.8(1)	----
1982 fiscal	585 hL	28.5	----	14.4	11.7	45.4(1)	----
1983 fiscal	564 hL	28.6	----	11.4	9.1	45.7(1)	----
1984 fiscal	584 hL	29.1	----	14.2	8.9	43.3(1)	----
1985 fiscal	562 hL	22.5	----	19.11	8.8	45.6(1)	----

(1) Milk Farm Home Consumed amount usually included in this figure is no longer available.

TABLE IV — Total Value of Dairy Products*

	$ '000		$ '000
1920	34,000	1973	104,535
1925	23,002	1974	126,114
1930	19,676	1975	154,739
1935	14,253	1976 fiscal	180,047
1940	17,324	1977 fiscal	200,333
1945	29,325	1978 fiscal	228,457
1950	42,513	1979 fiscal	241,628
1955	51,942	1980 fiscal	322,324
1960	65,187	1981 fiscal	379,877
1965	69,080	1982 fiscal	449,185
1970	82,849	1983 fiscal	509,230
1971	84,569	1984 fiscal	493,120
1972	87,844	1985 fiscal	495,331

* Total value of all manufactured and processed products including that portion of milk and by-products utilized on farms.

TABLE V

Farm Value of Milk Production

	$ '000		$ '000
1960	48,732	1978 fiscal	153,570
1965	51,170	1979 fiscal	159,322(3)
1970	62,883(1)	1980 fiscal	192,459
1973	78,484	1981 fiscal	226,491
1974	101,185	1982 fiscal	246,219
1975	116,826	1983 fiscal	236,342 R
1976 fiscal	129,473	1984 fiscal	257,491 R
1977 fiscal	145,220(2)	1985 fiscal	257,215

(1) From 1970 forward, includes Federal Government Subsidy.
(2) From 1977 forward, price is F.O.B. Factory rather than F.O.B. Farm.
(3) Total no longer includes values of Milk Farm Home Consumed and Fed Farm Animals. The comparative 1978 figure excluding these two values is 140,465.
R Revised Statistics

TABLE VI

Value of Factory Dairy Products

Year	Creamery Butter	Cheddar Cheese (1)	Specialty Cheeses	Ice Cream	Fluid Milk and Cream	Skimmilk, Buttermilk and Whey	Miscellaneous Manufactured Products	Total
	Thousands of Dollars							
1960	23,265	671	Nil	5,905	19,315	764	4,615	54,535
1965	19,641	882	Nil	6,605	22,028	1,172	7,894	58,222
1970	19,987	1,750	Nil	9,747	28,262	1,636	10,605	71,987
1973	17,550	3,456	Nil	12,474	38,184	2,779	19,092	93,535
1974	16,538	4,820	Nil	14,889	55,177	3,154	20,973	115,551
1975	23,895	7,194	2,406	17,611	61,799	6,180	23,692	142,777
1976(2)	20,921	7,693	3,252	18,461	70,558	14,484	24,304	159,673
1977	23,799	9,604	4,557	18,796	79,940	17,088	26,784	180,568
1978	21,049	11,063	6,708	20,107	104,867	17,029	28,275	209,098
1979	23,821	11,056	9,111	19,996	125,317	21,026	31,301	241,628 R
1980	27,992	15,135	12,194	31,587	181,958	------	40,531	309,397 R
1981	35,435	18,369	14,576	34,563	200,140	------	59,180	362,263 R
1982	40,358	24,259	18,554	38,360	213,353	------	88,657	423,541 R
1983	40,014	26,487	17,948	48,499	217,713	------	143,942	494,603 R
1984	42,641	38,242	20,980	53,477	225,010	------	112,770	493,120 R
1985	33,899	41,925	28,992	54,127	227,691	------	108,697	495,331

(1) Factory Cheese value includes net increase in processing.
(2) Fiscal year from 1976 forward.
R Revised Statistics

TABLE VII — The Production and Value of Ice Cream

Year	Production '000	Price	Value $ '000
1950	1,967 gal	1.43/gal	2,813
1955	2,716 gal	1.60/gal	4,346
1960	3,623 gal	1.63/gal	5,905
1965	5,242 gal	1.26/gal	6,605
1970	5,634 gal	1.73/gal	9,747
1973	6,332 gal	1.97/gal	12,474
1974	6,588 gal	2.26/gal	14,889
1975	6,671 gal	2.64/gal	17,611
1976 fiscal	6,713 gal	2.75/gal	18,461
1977 fiscal	6,835 gal	2.75/gal	18,796
1978 fiscal	31,859 L	0.631/L	20,107
1979 fiscal	30,343 L	0.659/L	19,996
1980 fiscal	31,906 L	0.990/L	31,587
1981 fiscal	27,873 L	1.240/L	34,563
1982 fiscal	27,797 L	1.380/L	38,360
1983 fiscal	30,891 L	1.570/L	48,499
1984 fiscal	31,457 L	1.700/L	53,477
1985 fiscal	31,287 L	1.730/L	54,127

TABLE VIII — The Production and Value of Creamery Butter

Year	Creameries	Production '000	Av. Output Per Creamery '000	Selling Value Total $ '000	Cents
1950	92	31,238 lb.	340 lb.	16,809	53.81/lb.
1955	89	31,326 lb.	352 lb.	18,041	57.59/lb.
1960	86	37,338 lb.	434 lb.	23,265	62.31/lb.
1965	80	36,562 lb.	457 lb.	19,641	53.72/lb.
1970	56	29,311 lb.	523 lb.	19,987	68.19/lb.
1973	46	23,282 lb.	506 lb.	17,550	75.38/lb.
1974	33	18,695 lb.	567 lb.	16,538	88.46/lb.
1975	31	20,587 lb.	664 lb.	23,895	116.07/lb.
1976 fiscal	22	17,843 lb.	811 lb.	20,921	117.25/lb.
1977 fiscal	20	18,342 lb.	917 lb.	23,799	129.75/lb.
1978 fiscal	19	6,946 kg	366 kg	21,049	303.03/kg
1979 fiscal	17	7,117 kg	419 kg	23,821	334.71/kg
1980 fiscal	16	7,863 kg	491 kg	27,992	356.00/kg
1981 fiscal	13	8,260 kg	635 kg	35,435	429.00/kg
1982 fiscal	13	8,475 kg	652 kg	40,358	476.20/kg
1983 fiscal	13	7,800 kg	600 kg	40,014	513.00/kg
1984 fiscal	11	8,161 kg	742 kg	42,641	522.50/kg
1985 fiscal	11	6,372 kg	579 kg	33,899	532,00/kg

TABLE IX The Production and Value of Cheddar and Variety Cheeses

Year	Factories C	Factories V	Production '000 C	Production '000 V	Av. Output Per Factory '000 C	Av. Output Per Factory '000 V	Selling Value Total $ '000 C	Selling Value Total $ '000 V	Selling Value Cents C	Selling Value Cents V
1945	18		3,985	lb.	221	lb.	903		22.67	/lb.
1950	14		2,940	lb.	210	lb.	1,030		35.05	/lb.
1955	10		2,151	lb.	215	lb.	694		32.25	/lb.
1960	7		1,760	lb.	261	lb.	671		39.55	/lb.
1965	6		2,188	lb.	365	lb.	882		40.31	/lb.
1970	6	3	3,357	155 lb.	560	52 lb.	1,750	---	52.13	--- /lb.
1973	7	4	4,768	913 lb.	681	228 lb.	3,456	---	72.48	--- /lb.
1974	6	6	4,884	2,186 lb.	814	365 lb.	4,820	---	98.69	--- /lb.
1975	7	6	6,307	2,406 lb.	901	401 lb.	7,914	2,296	113.35	95.43/lb.
1976*	7	6	6,872	3,161 lb.	982	510 lb.	7,693	3,193	111.95	101.02/lb.
1977	6	6	8,013	4,557 lb.	1,335	759 lb.	9,604	5,462	119.86	119.86/lb.
1978	6	8	3,935	2,386 kg	656	298 kg	11,063	6,708	281.14	281.14/kg
1979	6	11	3,649	3,007 kg	608	273 kg	11,056	9,111	302.99	302.99/kg
1980	6	11	3,921	3,159 kg	654	287 kg	15,135	12,194	308.60	308.60/kg
1981	6	11	3,599	3,321 kg	600	302 kg	18,369	14,563	510.40	438.52/kg
1982	6	10	4,023	3,651 kg	671	365 kg	24,259	18,554	603.00	508.18/kg
1983	6	10	4,160	3,533 kg	693	353 kg	26,487	21,820	636.71	508.00/kg
1984	6	10	5,768	3,787 kg	961	379 kg	38,242	20,980	663.00	554.00/kg
1985	6	10	6,315	5,220 kg	1052	522 kg	41,925	28,992	663.90	555.40/kg

*Fiscal year from 1976 forward.

TABLE X Butterfat Received as Cream on a Monthly Basis

	1980	1981	1982	1983	1984	1985
	Percentage Change from Previous Year					
April	-11.96	-18.00	- 4.35	-27.31	-10.01	-7.97
May	- 9.24	-23.16	-12.55	-17.15	- 9.83	-14.05
June	-14.32	-11.30	-15.20	-25.08	-10.91	-19.96
July	-12.57	-17.58	-14.20	-35.69	+ 6.87	-17.98
August	-18.23	-19.45	- 4.39	-16.09	-14.07	-18.86
September	- 4.64	-19.85	- 7.71	-17.21	-22.70	-14.92
October	-16.15	-16.93	-10.16	-21.48	- 8.71	-21.68
November	-24.48	- 4.93	- 6.75	-22.29	- 8.70	-27.67
December	- 9.91	- 6.81	-16.47	-15.38	-15.85	-17.79
January	-19.14	- 9.81	-13.09	-11.72	-10.66	-19.82
February	-19.47	- 9.43	-15.76	-11.37	-11.20	-19.83
March	-11.14	- 6.17	-18.63	-12.39	-19.32	-17.53
Total Year	-13.86	-15.11	-11.37	-20.84	-11.17	-17.90

TABLE XI Milk Cow Numbers and Average Production

Year	No. Cows June 1st	Average Milk	Production Butterfat
1945	344,000	4,247 lb.	152.9 lb.
1950	297,800	4,617 lb.	166.2 lb.
1955	285,000	5,044 lb.	176.5 lb.*
1960	279,000	5,915 lb.	207.0 lb.
1965	262,000	6,264 lb.	219.2 lb.
1970	198,000	7,721 lb.	270.2 lb.
1973	169,000	8,265 lb.	289.3 lb.
1974	169,000	7,595 lb.	265.8 lb.
1975	170,000	7,507 lb.	262.7 lb.
1976	152,000	8,376 lb.	293.2 lb.
1977	155,000	8,072 lb.	282.5 lb.
1978	148,000	2,878 L	103.6 kg
1979	135,000	3,333 L	119.9 kg
1980	138,000	3,478 L	125.2 kg
1981	142,000**	3,718 L	133.8 kg
1982	158,000**	3,450 L	124.2 kg
1983	157,000**	3,592 L	129.3 kg
1984	157,000**	3,720 L	133.9 kg
1985	150,000**	3,748 L	134.9 kg

* From 1955 forward, average buterfat test 3.5%; previous years were 3.6%.
** Census figure as of January 1 of that year.

Alberta Margarine Statistics as reported by Bureau of Statistics, Alberta Department of Industry & Commerce, are no longer available.

Estimated value of selected products (expressed in Millions) for the 1985-1986 fiscal year:

Butter	$ 33.8
Cheddar Cheese	41.9
Cheese Other than Cheddar	28.9
Fluid Milk	185.3
Other Fluid Products	42.3
Ice Cream	54.1
Miscellaneous - Concentrated and Powdered Milk, Cottage Cheese, Yoghurt, etc.	108.7

ALBERTA DAIRY CONTROL BOARD

BOARD MEMBERS

M. Dordevic (Chairman)	---- Wetaskiwin
Mrs. J. Chorny (Consumer)	---- Calgary
R. Cameron (Producer)	---- Millet
J. Hunter (Producer)	---- Medicine Hat
A. Kastelic (Producer)	---- Sangudo
L. G. Johnston (Secretary-Manager)	---- Wetaskiwin

BOARD INSPECTORS

B. A. Allen	-	Calgary area
W. Vonk	-	Edmonton area
D. G. Thompson	-	Lethbridge area

STAFF

Jo-Anne Dumont	Emma Elliott
Brian Lock	Marj Loov
Denice Monaghan	Maria Siegl

Walter Shupenia

The Dairy Board operates under the Dairy Board Act. The Board met its responsibilities in administering the fluid, industrial milk and cream sectors. The responsibilities included licensing dairy producers, processors and distributors of fluid milk products; setting and adjusting fluid milk quotas and market share quotas; regulating the time and payment to producers; and, in general, governing the sale of milk in Alberta.

The Board fulfilled its responsibilities under the Alberta Milk Market Sharing Plan, which is part of the national milk supply management system for industrial milk.

The Board is a member of the Canadian Milk Supply Management Committee, a body responsible for the development of the national dairy policy. Mike Dordevic represented the Board on this committee.

Fluid milk sales showed a modest increase after almost four years of decline. Milk production from the industrial sector continued to decline as did the number of industrial producers. Cream production, as did the number of cream producers, declined dramatically during the past year.

The number of active producers at March 31, 1986 were: fluid milk 1,343; industrial milk 224; and cream 970; a total of 2,537 compared to 2,876 a year earlier - an 11.8% decrease.

Total production under market share quota amounted to 104.6% of our provincial entitlement during the period of August 1, 1984 to July 31, 1985. Producers received a refund of the over-quota levies paid on deliveries up to 106.7% of market share quota. An increase of 3% in market share quota was issued in December to all producers. Production to March 31, 1986 was patterned very similarly to production for the same period two years earlier.

The Board operated a fluid milk equalization pool for Alberta fluid milk producers. The plan, which enabled producers to share the fluid milk returns, regardless of location or source of sales, completed its eleventh year.

Board staff maintained an audit program of all fluid processors and together with inspections ensured compliance with regulations under the Dairy Board Act.

The Graduated Entry Program remained on hold. There were no allotments of fluid quota to any producers.

Producer returns for industrial milk advanced $1.03/hL on August 16, 1985 ending at $38.88/hL. Fluid milk producers realized a price increase of $0.98/hL on September 15, 1985 for milk sold as Class I ending the fiscal year at $51.07/hL.

TABLE 1

NUMBER OF MILK PRODUCERS, FLUID PROCESSORS AND DISTRIBUTORS AT MARCH 31, 1986

	1986 Production (Fluid)	1986 Processors/ Distributors	1985 Producers	1985 Processors/ Distributors	1984 Producers	1984 Processors/ Distributors
Calgary	557	3	553	3	557	3
Camrose	72	1	74	1	66	1
Crowsnest Pass	10	1	10	1	11	1
Edmonton	452	4	463	3	445	3
Lethbridge	49	2	50	2	51	2
Medicine Hat	2	3	-	2	-	2
Red Deer	-	3	-	3	-	3
Other Areas	201	6	226	6	279	6
TOTAL	1,343	23	1,376	21	1,409	21

Note 1: 1986 average daily shipment per producer was 1021 litres.

Note 2: The above 1,343 fluid producers includes those delivering to plants processing industrial dairy products.

Note 3: A processor/distributor is one who distributes milk which they process.

T A B L E 2

FLUID MILK CONSUMPTION IN LITRES 1980/81 - 1985/86 (April 1 - March 31)

AREAS	1985/86	1984/85	1983/84	1982/83	1981/82	1980/81
Southern	23,356,130	22,661,872	22,876,864	21,995,564	20,021,274	19,217,134
Central	99,819,463	97,266,735	100,049,764	105,848,724	106,087,722	105,995,094
Northern	129,671,189	129,196,146	130,858,278	134,325,889	136,328,882	130,717,693
TOTAL	252,846,782	249,124,753	253,784,906	262,170,177	262,437,878	255,929,921

Note: Fluid milk consumption includes Homo, Standard, 2%, Skim, Chocolate, Buttermilk and Egg Nog.

T A B L E 3

FLUID CREAM CONSUMPTION IN LITRES, APRIL 1 - MARCH 31, 1980/81 - 1985-86

AREAS	1985/86	1984/85	1983/84	1982/83	1981/82	1980/81
Southern	742,302	621,412	590,410	554,631	489,579	470,147
Central	3,879,448	3,783,461	3,745,535	3,895,806	3,870,624	3,635,847
Northern	4,803,752	4,555,010	4,428,416	4,339,155	4,424,338	4,190,705
TOTAL	9,425,502	8,959,883	8,764,362	8,789,592	8,784,541	8,296,699

TABLE 4

TOTAL SALES OF FLUID MILK MONTHLY APRIL 1985 TO MARCH 1986 IN LITRES
HOMO, 2%, SKIM, CHOCOLATE, BUTTERMILK AND EGG NOG

	Southern	Central	Northern	Total	Cumulative
April	1,927,917	8,170,392	11,017,427	21,115,736	21,115,736
May	1,899,223	8,464,173	10,931,840	21,295,236	42,410,972
June	1,667,525	7,813,095	9,908,940	19,389,560	61,800,532
July	1,863,090	7,770,289	9,919,812	19,553,191	81,353,723
August	2,070,579	8,313,656	10,660,999	21,045,234	102,398,957
September	1,889,355	7,895,578	10,356,383	20,141,316	122,540,273
October	2,115,337	8,727,304	11,349,130	22,191,771	144,732,044
November	2,064,932	8,841,454	11,172,828	22,079,214	166,811,258
December	2,017,088	8,893,379	11,338,817	22,249,284	189,060,542
January	2,080,904	8,622,534	11,535,153	22,238,591	211,299,133
February	1,850,206	7,999,384	10,546,321	20,395,911	231,695,044
March	1,909,974	8,308,225	10,933,539	21,151,738	252,846,782

T A B L E 5

SALES OF HOMO - MONTHLY APRIL 1985 TO MARCH 1986 IN LITRES

	Southern	Central	Northern	Total	Cumulative
April	467,383	1,904,612	2,835,956	5,207,951	5,207,951
May	457,975	1,958,154	2,765,599	5,181,728	10,389,679
June	404,044	1,817,882	2,553,153	4,775,079	15,164,758
July	457,374	1,834,552	2,625,202	4,917,128	20,081,886
August	507,140	1,953,751	2,781,649	5,242,540	25,324,426
September	450,746	1,774,102	2,607,539	4,832,387	30,156,813
October	498,303	1,942,528	2,832,901	5,273,732	35,430,545
November	474,270	1,923,199	2,763,299	5,160,768	40,591,313
December	454,681	1,882,384	2,796,368	5,133,433	45,724,746
January	465,017	1,859,041	2,906,680	5,230,738	50,955,484
February	417,095	1,735,356	2,644,914	4,797,365	55,752,849
March	433,173	1,783,452	2,722,666	4,939,291	60,692,140

TABLE 6

SALES OF 2% PARTLY SKIMMED MILK MONTHLY APRIL 1985 TO MARCH 1986 IN LITRES

	Southern	Central	Northern	Total	Cumulative
April	1,267,566	5,252,234	6,956,324	13,476,124	13,476,124
May	1,246,029	5,420,828	6,961,545	13,628,402	27,104,526
June	1,089,614	5,004,081	6,251,392	12,345,087	39,449,613
July	1,201,955	4,938,837	6,170,171	12,310,963	51,760,576
August	1,347,993	5,324,788	6,698,091	13,370,872	65,131,448
September	1,244,482	5,133,872	6,574,728	12,953,082	78,084,530
October	1,387,580	5,641,812	7,164,744	14,194,136	92,278,666
November	1,352,611	5,652,990	7,020,134	14,025,735	106,304,401
December	1,304,301	5,483,360	6,865,000	13,652,661	119,957,062
January	1,390,631	5,631,284	7,263,560	14,285,475	134,242,537
February	1,228,966	5,185,815	6,612,754	13,027,535	147,270,072
March	1,260,232	5,385,848	6,859,736	13,505,816	160,775,888

T A B L E 7

SALES OF SKIM MILK MONTHLY APRIL 1985 TO MARCH 1986 IN LITRES

	Southern	Central	Northern	Total	Cumulative
April	89,514	575,687	683,611	1,348,812	1,348,812
May	91,120	621,878	678,036	1,391,037	2,739,849
June	79,995	567,425	608,420	1,255,840	3,995,689
July	85,852	535,604	584,718	1,206,174	5,201,863
August	93,473	567,567	631,128	1,292,168	6,494,031
September	86,121	572,099	658,991	1,317,211	7,811,242
October	105,819	644,754	716,873	1,467,446	9,278,688
November	104,857	658,751	710,358	1,473,966	10,752,654
December	93,249	606,484	662,388	1,362,121	12,114,775
January	111,507	677,482	748,238	1,537,227	13,652,002
February	100,249	637,884	705,390	1,443,523	15,095,525
March	105,789	678,119	764,944	1,548,852	16,644,377

T A B L E 8

SALES OF CHOCOLATE MILK MONTHLY APRIL 1985 - MARCH 1986 IN LITRES

	Southern	Central	Northern	Total	Cumulative
April	89,024	381,250	455,873	926,147	926,147
May	88,093	400,378	431,659	920,130	1,846,277
June	79,486	363,908	407,900	851,294	2,697,571
July	98,994	392,248	438,338	929,580	3,627,151
August	105,392	406,112	453,646	965,150	4,592,301
September	94,837	364,131	432,979	891,947	5,484,248
October	109,671	428,047	504,976	1,042,694	6,526,942
November	99,019	389,830	460,444	949,293	7,476,235
December	92,192	378,540	458,401	929,133	8,405,368
January	101,405	412,675	542,786	1,056,866	9,462,234
February	91,587	388,732	505,149	985,468	10,447,702
March	97,481	406,017	499,187	1,002,685	11,450,387

TABLE 9

SALES OF BUTTERMILK MONTHLY APRIL 1985 - MARCH 1986 IN LITRES

	Southern	Central	Northern	Total	Cumulative
April	14,430	56,135	86,971	157,536	157,536
May	16,006	62,574	95,073	173,653	331,189
June	14,386	59,331	88,075	161,792	492,981
July	18,915	68,438	101,167	188,520	681,501
August	16,581	60,938	96,485	174,004	855,505
September	13,169	50,894	82,050	146,113	1,001,618
October	13,964	56,100	87,750	157,814	1,159,432
November	12,997	54,012	81,285	148,294	1,307,726
December	12,132	51,008	79,242	142,382	1,450,108
January	12,971	52,408	80,647	146,026	1,596,134
February	12,316	51,104	78,146	141,566	1,737,700
March	13,299	54,429	87,024	154,752	1,892,452

T A B L E 10

SALES OF FLUID CREAM MONTHLY APRIL 1985 - MARCH 1986 IN LITRES

	Southern	Central	Northern	Total	Cumulative
April	62,515	331,143	405,767	799,425	799,425
May	60,006	344,886	402,182	807,074	1,606,499
June	55,027	309,956	377,326	742,309	2,348,808
July	59,495	309,892	379,618	749,005	3,097,813
August	68,899	338,519	431,017	838,435	3,936,248
September	61,078	307,557	386,662	755,297	4,691,545
October	69,127	339,756	433,456	842,339	5,533,884
November	57,764	316,721	393,761	768,246	6,302,130
December	72,395	368,789	442,599	883,783	7,185,913
January	58,573	295,590	374,546	728,709	7,914,622
February	56,492	292,050	367,428	715,970	8,630,592
March	60,931	324,589	409,390	794,910	9,425,502

T A B L E 11

TOTAL SALES OF MILK AND CREAM IN LITRES BY SIZE OF CONTAINERS APRIL 1985 TO MARCH 31, 1986

	Fluid Milk Products	% of Total	Cream	% of Total	Total all Products	% of Total
20 litres	12,009,120	4.75	204,220	2.17	12,213,340	4.66
4 litres	23,820,756	9.42			23,820,756	9.08
2 litres	177,314,376	70.13			177,314,376	67.60
1 litre	26,032,023	10.30	2,287,861	24.27	28,319,884	10.80
500 mL	4,361,523	1.72	2,972,295	31.53	7,333,814	2.80
250 mL	7,917,439	3.13	1,193,162	12.66	9,110,600	3.47
Creamer			2,767,964	29.37	2,767,962	1.06
Egg Nog						
2 litres	448,570	0.18			448,570	0.17
1 litre	942,975	0.37			942,975	0.36
TOTAL LITRES	252,846,782	100.00	9,425,502	100.00	262,272,284	100.00

T A B L E 12

TOTAL FLUID SALES BY PRODUCT IN LITRES APRIL 1, 1985 TO MARCH 31, 1986

	Southern	Central	Northern	Total
Homo	5,487,201	22,369,013	32,835,926	60,692,140
2%	15,321,960	64,055,749	81,398,179	160,775,888
Skim	1,147,545	7,343,734	8,153,095	16,644,374
TOTAL	21,956,706	93,768,496	122,387,200	238,112,402
Chocolate	1,147,181	4,711,868	5,591,338	11,450,387
Buttermilk	171,166	677,371	1,043,915	1,892,452
Egg Nog	81,077	661,728	648,736	1,391,541
TOTAL	1,399,424	6,050,967	7,283,989	14,734,380
Cream	742,302	3,879,448	4,803,752	9,425,502
TOTAL	24,098,432	103,698,911	134,474,941	262,272,284

TABLE 13

FLUID MILK PURCHASES BY DISTRIBUTION PLANTS IN LITRES

AREAS	1985/86	1984/85	1983/84
Southern	43,096,159	45,586,568	48,133,042
Central	242,065,415	244,534,804	225,355,388
Northern	217,711,667	219,659,952	219,856,547
TOTAL	502,873,241	505,212,824	493,324,977

INDUSTRIAL MILK PURCHASES BY DISTRIBUTION PLANTS IN LITRES

Southern	37,757	34,120	76,190
Central	24,940,711	27,597,921	26,341,917
Northern	13,088,861	15,365,145	14,452,568
TOTAL	38,067,329	42,997,186	40,870,675
TOTAL ALL AREAS	540,940,570	548,210,010	534,195,652

T A B L E 14

CLASS I SALES, UTILIZATION PERCENTAGE OF QUOTA MILK
JANUARY 1, 1985 - DECEMBER 31, 1985

Month	Class 1 Sales 1985	% Utilization 1985	Class 1 Sales 1984	% Utilization 1984	Class 1 Sales 1983	% Utilization 1983
January	22,138,428	76.12	22,286,866	77.08	22,018,553	76.89
February	20,178,964	76.98	20,251,428	74.88	20,482,218	79.05
March	21,604,775	74.29	22,724,650	78.39	23,770,840	82.87
April	21,498,881	76.62	20,271,541	72.27	20,595,883	73.94
May	21,673,707	74.38	21,785,281	74.96	21,839,748	77.62
June	19,761,624	70.31	20,503,486	72.80	21,357,354	76.19
July	19,906,713	69.01	19,516,358	67.29	19,626,515	68.61
August	21,451,142	74.54	21,271,697	73.47	20,537,598	71.75
September	20,512,479	73.70	19,865,686	70.87	22,462,502	80.65
October	22,564,070	78.42	22,320,980	77.21	21,591,503	75.11
November	22,278,457	79.47	22,186,783	79.08	21,954,714	78.53
December	22,107,935	76.28	21,058,739	72.36	22,312,242	77.04
TOTAL	255,677,175	74.99	254,048,495	74.22	258,549,670	76.31

T A B L E 15

MILK AND CREAM PRODUCTION BY SECTORS EXPRESSED IN KILOGRAMS OF BUTTERFAT OR EQUIVALENT

APRIL 1, 1985 - MARCH 31, 1986

SECTOR	1985/86	1984/85	1983/84	1982/83	1981/82
* Fluid	18,103,438	18,528,375	17,778,716	18,114,705	17,300,924
Industrial	1,419,995	1,604,114	1,495,613	1,638,581	1,705,293
TOTAL MILK	19,523,433	20,132,489	19,274,329	19,753,286	19,006,217
INDUSTRIAL CREAM	870,111	1,059,897	1,193,019	1,506,802	1,700,167
TOTAL PRODUCTION	20,393,544	21,192,386	20,467,348	21,260,088	20,706,384
Percent Change from Previous Year	- 3.77	+ 3.54	- 3.77	+ 2.67	+ 7.31

* Converted to Butterfat using 3.6 kilograms of B.F. per hectolitre of milk.

T A B L E 16

GRADUATED ENTRY PLAN STATISTICS

	1985	1984	1983	1982	1981	1980
Applications Received	56	18	40	106	317	208
Applications Accepted	0	0	0	42	181	143
Initial Allotment - Litres	0	0	0	7,245	30,985	25,230
2nd year daily allotment - Litres	0	0	3,865	15,030	12,155	18,880
3rd year daily allotment - Litres	0	2,435	14,250	12,290	18,880	11,880
TOTAL LITRES (By Year)	0	2,435	18,115	34,565	62,020	55,990
Total Applications Accepted Since January 1, 1975	930	930				
Total Litres to Date	311,520	311,520				

T A B L E 17

UNUSED MARKET SHARE QUOTA

EXCHANGE FIGURES

MONTH	1985-86		1984-85		1983-84		1982-83	
	$ MCP	KG'S SOLD	$ MCP	KG'S SOLD	$ MCP	KG'S SOLD	$ MCP	KG'S SOLD
October	8.50	9,755	6.00	5,195	6.00	5,745	0	0
November	8.50	21,129	6.00	11,759	4.50	10,982	.20	647
December	8.50	15,017	6.50	957	6.00	11,564	1.00	1,103
January	8.50	6,148	6.00	1,793	6.00	10,903	0	0
February	9.00	14,562	6.50	8,482	6.00	20,503	3.25	2,037
March	10.00	9,224	7.00	2,504	6.50	5,900	7.50	1,257
April	9.00	27,766	7.00	5,043	7.00	20,129	8.00	1,947
May	8.00	40,842	8.05	11,214	7.00	29,713	8.50	1,198
June	6.00	49,146	8.50	40,776	6.00	56,300	9.00	5,330
TOTAL WEIGHTED AVERAGE PRICE	7.94	193,589	7.56	87,723	6.21	171,739	6.73	13,519

T A B L E 18

USED MARKET SHARE QUOTA

EXCHANGE FIGURES

MONTH	1985-86		1984-85		1983-84		1982-83	
	$ MCP	KG'S SOLD	$ MCP	KG'S SOLD	$ MCP	KG'S SOLD	$ MCP	KG'S SOLD
October	6.00	824	3.00	182	-	0	-	0
November	6.00	2,830	1.50	1,110	-	0	-	0
December	6.50	763	1.50	163	-	0	-	0
January	6.50	2,222	3.00	1,064	1.00	993	.30	166
February	6.00	3,214	3.00	995	2.00	4,794	1.50	712
March	5.00	1,788	4.00	462	-	0	-	0
April	6.00	7,516	4.00	1,494	2.10	621	-	0
May	-	0	-	0	3.00	3,902	4.00	429
June	6.00	8,792	6.00	11,298	-	0	-	0
TOTAL WEIGHTED AVERAGE PRICE	5.99	27,949	4.04	16,768	2.29	10,310	2.21	1,307